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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 1 of 1

## **Complete If Known**

Application Number 09/954,695  
Filing Date September 11, 2001  
First Named Inventor CUNNINGHAM et al.  
Group Art Unit 1634  
Examiner Name Goldberg, J.  
Attorney Docket Number GP116-02.UT

## **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	12
QJP		CAI et al., "C. parvum ribosomal RNA gene for 18S rRNA (pCPA911)", DATABASE NCBI 'Onlinel, June 1993, Accession No. X64340	
		CAI et al., "PCR cloning and nucleotide sequence determination of the 18S rRNA genes and internal transcribed spacer 1 of the protozoan parasites Cryptosporidium parvum and Cryptosporidium muris", Biochim Biophys Acta., July 1992, 1131(3):317-20	
		DEERE et al., "Evaluation of fluorochromes for flow cytometric detection of Cryptosporidium parvum oocysts labelled by fluorescent in situ hybridization", Lett Appl Microbiol., Dec. 1998, 27(6):352-6	
		DENG et al., "Immunomagnetic Capture PCR To Detect Viable Cryptosporidium parvum Oocysts from Environmental Samples", Appl Environ Microbiol., Aug. 1997, 63(8):3134-8	
		HALLIER-SOULIER et al., "An immunomagnetic separation polymerase chain reaction assay for rapid and ultra-sensitive detection of Cryptosporidium parvum in drinking water", FEMS Microbiol Lett., July 1999, 176(2):285-9	
		LABERGE et al., "Detection of Cryptosporidium parvum in Raw Milk by PCR and Oligonucleotide Probe Hybridization", Appl Environ Microbiol., Sept. 1996, 62(9):3259-64	
		LINDQUIST, "Probes for the Specific Detection of Cryptosporidium parvum", Wat Res., 1997, 31(10):2669-71	
		PIENIAZEK et al., "Cryptosporidium parvum 18S ribosomal RNA gene, complete", DATABASE NCBI 'Onlinel, March 1996, Accession No. L16996	
✓		WANG et al., "Electrochemical biosensor for detecting DNA sequences from the pathogenic protozoan Cryptosporidium parvum", Talanta, 1997, 44:2003-2010	

Examiner Signature J. Goldberg Date Considered 6/24/03

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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## Complete if Known

Application Number 09/954,695  
Filing Date September 11, 2001  
First Named Inventor CUNNINGHAM et al.  
Group Art Unit To be assigned 1634  
Examiner Name To be assigned Goldberg  
Attorney Docket Number GP116-02.UT

Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Apparent
		Number	Kind Code <sup>3</sup> (if known)			
✓		4851330	A	Kohne	07-25-1989	
		5030557	A	Hogan et al.	07-09-1991	
		5399491	A	Kacian et al.	03-21-1995	
		5539082	A	Nielsen et al.	07-23-1996	
		5556774	A	Wiedenmann et al.	09-17-1996	
		5591434	A	Jenkins et al.	01-07-1997	
		5690825	A	Parton	11-25-1997	
		5693472	A	Steele et al.	12-02-1997	
		5770368	A	De Leon et al.	06-23-1998	
		5789190	A	Crabb et al.	08-04-1998	
		5820767	A	Kane et al.	10-13-1998	
		5840488	A	Hogan	11-24-1998	
		5925517	A	Tyagi et al.	07-20-1999	
		6054279	A	Nadeau et al.	04-25-2000	
		6130038	A	Becker et al.	10-10-2000	
✓		6146838	A	Williams et al.	11-14-2000	

## FOREIGN PATENT DOCUMENTS

Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Apparent	T <sup>4</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
✓		EP	0652974	B1	Minister of Agr., Fisheries & Food of the U.K.	05-17-1995		
		WO	9402635	A1	Minister of Agr., Fisheries & Food of the U.K.	02-03-1994		
		WO	9404681	A1	Instituto Superior Di Santa et al.	03-03-1994		
		WO	9634978	A1	MacGuire Research Limited et al.	11-07-1996		
		WO	9640826	A2	The Board of Regents of the University of California	12-19-1996		
		WO	9702281	A1	Murdoch University	01-23-1997		
		WO	9703362	A1	ImmuCell Corporation	01-30-1997		
		WO	9708204	A1	MacGuire Research Ltd et al.	03-06-1997		
		WO	9742349	A1	Metropolitan Water District of Southern California	11-13-1997		
✓		WO	9804675	A2	Pati Corporation	02-05-1998		

Examiner Signature G. Goldberg Date Considered 6/24/03

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	2	of	4
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**Complete if Known**

Application Number	09/954,695
Filing Date	September 11, 2001
First Named Inventor	CUNNINGHAM et al
Group Art Unit	To be assigned /6
Examiner Name	To be assigned G6
Attorney Docket Number	GP116-02.UT

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner  
Signature

S. Goldberg

Date Considered

6/24/03

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet **3** of **4**

## **Compl. to If Known**

Application Number **09/954,695**  
 Filing Date **September 11, 2001**  
 First Named Inventor **CUNNINGHAM et al.**  
 Group Art Unit **To be assigned 1634**  
 Examiner Name **To be assigned (1634)**  
 Attorney Docket Number **GP116-02.UT**

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	PT
<i>g</i>		AWAD-EL-KARIEM et al., "Detection and species identification of Cryptosporidium oocysts using a system based on PCR and endonuclease restriction", Parasitology, July 1994, p. 19-22, vol. 109, Cambridge University Press, UK	
		BALATBAT et al., "Detection of Cryptosporidium parvum DNA in Human Feces by Nested PCR", J. Clin. Microbiol., July 1996, p. 1769-1772, vol. 34, no. 7, American Society of Microbiology, US	
		CARRAWAY et al., "Genetic Markers Differentiate C. parvum Isolates", J. Eukaryot. Microbiol., Sept.-Oct. 1994, p. 26S, vol. 41, no. 5, Allen Press Inc., US	
		CHRISP et al., "Similarities and differences between DNA of cryptosporidium parvum and C. wrairi detected by the polymerase chain reaction", Folia Parasitol., 1994, p. 97-100, vol. 41, no. 2, Czech Academy of Sciences, CZ	
		DEERE et al., "Rapid method for fluorescent in situ ribosomal rna labeling of cryptosporidium parvum", J. Appl. Microbiol., Nov. 1998, p. 807-818, vol. 85, no. 5, Blackwell Science Limited, UK	
		GARCIA et al., "Detection of Microsporidian Spores in Faecal Specimens from Patients Diagnosed with Cryptosporidiosis", J. Clin. Microbiol., July 1994, p. 1739-1741, vol. 32, no. 7, American Society of Microbiology, US	
		KILANI et al., "Geographical Variation in 18S rRNA Gene Sequence of Cryptosporidium Parvum", Int. J. Parasitol., April 1994, p. 303-306, vol. 24, no. 2, Elsevier Science Limited, UK	
		LAXER et al., "DNA Sequences for the Specific Detection of Cryptosporidium Parvum by the Polymerase Chain Reaction" Am. J. Trop. Med. Hyg., Dec. 1991, p. 688-694, vol. 45, no. 6, Allen Press Incorporated, US	
		LINDQUIST et al., "Criteria for evaluation of proposed protozoan detection methods", J. Microbiol. Methods, July 1999, p. 33-43, vol. 37, no. 1, Elsevier Science Publishers BV, NE	
		LONG et al., "The Diagnosis of Old and New Gastrointestinal Parasites", Clin. Lab. Med., June 1995, p. 307-331, vol. 15, no. 2, W B Saunders Company, US	
		MARSH et al., "Sequence Analysis and Comparison of Ribosomal DNA From Bovine Neospora to Similar Coccidial Parasites", J. Parasitol., Aug. 1995, p. 530-535, vol. 81, no. 4, American Society of Parasitologists, US	
<i>↓</i>		MORGAN et al., "Differentiation Between Human and Animal Isolates of Cryptosporidium Parvum Using rDNA Sequencing and Direct PCR Analysis", J. Parasitol., Oct. 1997, p. 825-830, vol. 83, no. 5, American Society of Parasitologists, US	

Examiner Signature *G. Goldberg* Date Considered *6/24/03*

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **4** of **4**

## Complete If Known

Application Number **09/954,695**  
 Filing Date **September 11, 2001**  
 First Named Inventor **CUNNINGHAM et al.**  
 Group Art Unit **To be assigned 1,634**  
 Examiner Name **To be assigned Goldbug**  
 Attorney Docket Number **GP116-02.UT**

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1*
gy		MORGAN et al., "Phylogenetic Analysis of Cryptosporidium Isolates from Captive Reptiles Using 16S rDNA Sequence Data and Random Amplified Polymorphic DNA Analysis", J. Parasitol., June 1999, p. 925-938, vol. 85, no. 3, American Society of Parasitologists, US	
		ROCHELLE et al., "Development of a Rapid Detection Procedure for Cryptosporidium, Using In Vitro Cell Culture Combined with PCR", J. Eukaryot. Microbiol., Sept-Oct. 1996, p. 72S, vol. 43, no. 5, Allen Press, Inc., US	
		SHEPHERD et al., "An Evaluation of Methods for the Simultaneous Detection of Cryptosporidium Oocysts and Giardia Cysts from Water", Appl. Environ. Microbiol., Apr. 1996, p. 1317-1322, vol. 62, no. 4, American Society for Microbiology, US	
		SINGH, "Molecular Methods for Diagnosis and Epidemiological Studies of Parasitic Infections", Int. J. Parasitol., Oct. 1997, p. 1135-1145, vol. 27, no. 10, Elsevier Science Limited, UK	
		SILFICO et al., "An In Vitro Method for Detecting Infectious Cryptosporidium Oocysts with Cell Culture", Appl. Environ. Microbiol., Sept. 1997, p. 3669-3675, vol. 63, no. 9, American Society for Microbiology, US	
		VESEY et al., "The use of a ribosomal RNA targeted oligonucleotide probe for fluorescent labelling of viable Cryptosporidium parvum oocysts", J. Appl. Microbiol., Sept. 1998, p. 429-440, vol. 85, no. 3, Blackwell Science Limited, UK	
		WEBSTER et al., "Detection of Cryptosporidium parvum using a specific polymerase chain reaction" Vet. Parasitol., Oct. 1993, p. 35-44, vol. 50, no. 1-2, Elsevier Science Publishers BV, NE	
		WEBSTER et al., "Detection of Cryptosporidium parvum oocysts in faeces: comparison of conventional coproscopical methods and the polymerase chain reaction", Vet. Parasitol., Jan. 1996, p. 5-13, vol. 61, no. 1-2, Elsevier Science Publishers BV, NE	
		XIAO et al., "Phylogenetic Analysis of Cryptosporidium Parasites Based on the Small-Subunit rRNA Gene Locus", Appl. Environ. Microbiol., Apr. 1998, p. 1578-1583, vol. 65, no. 4, American Society for Microbiology, US	
		ZHU et al., "Direct Isolation of DNA from Patient Stools for Polymerase Chain Reaction Detection of Cryptosporidium parvum", J. Infect. Dis., May 1998, p. 1443-1446, vol. 177, no. 5, University of Chicago Press, US	

Examiner Signature **G. Goldbug** Date Considered **6/24/03**

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